



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**FREIGHTLINER 714**  
Component  
**Diesel Engine**  
Fluid  
**CASTROL TECTION EXTRA SAE 15W-40 (38 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0781411</b>	WC0526820	WC0307407
Sample Date		Client Info		<b>04 Jun 2024</b>	27 Apr 2022	11 Apr 2019
Machine Age	kms	Client Info		<b>1179088</b>	1133473	1102867
Oil Age	kms	Client Info		<b>45615</b>	30606	24631
Filter Age	kms	Client Info		<b>45615</b>	30606	24631
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>200	<b>33</b>	27	28
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	3	4
Nickel	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>30	<b>2</b>	2	3
Lead	ppm	ASTM D5185(m)	>30	<b>3</b>	3	2
Copper	ppm	ASTM D5185(m)	>30	<b>8</b>	4	4
Tin	ppm	ASTM D5185(m)	>4	<b>3</b>	4	2
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

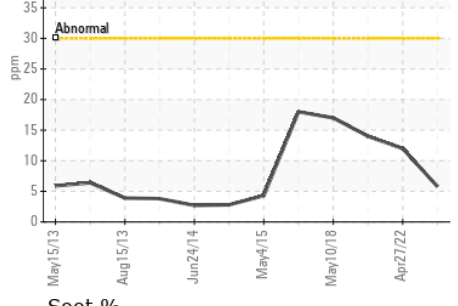
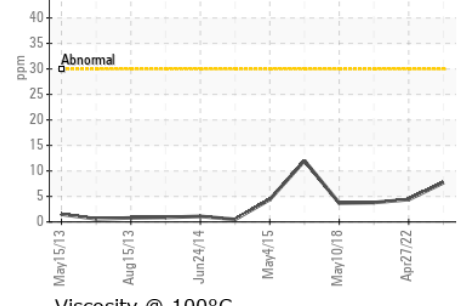
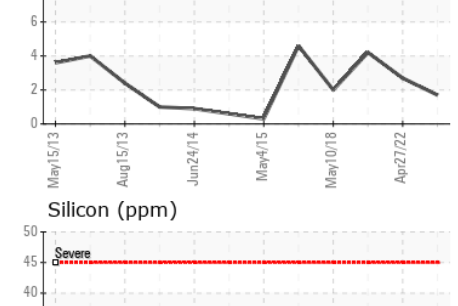
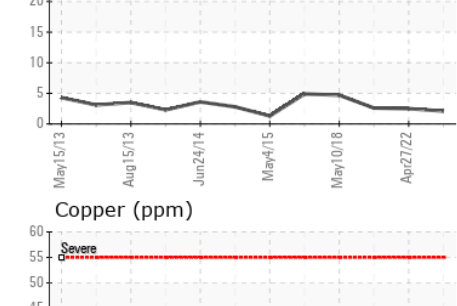
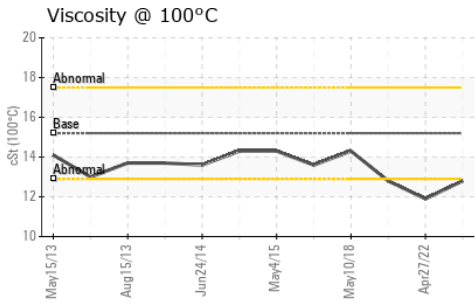
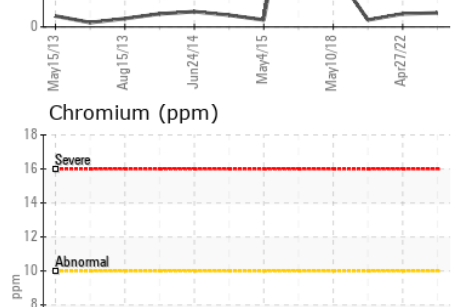
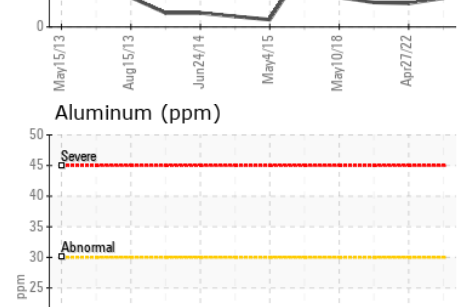
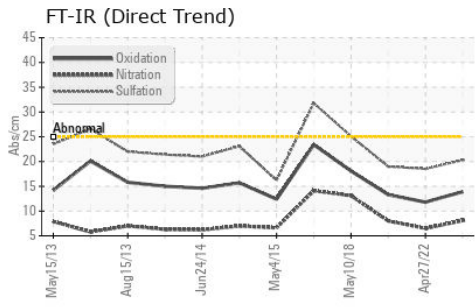
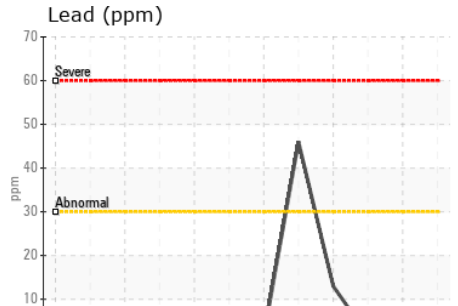
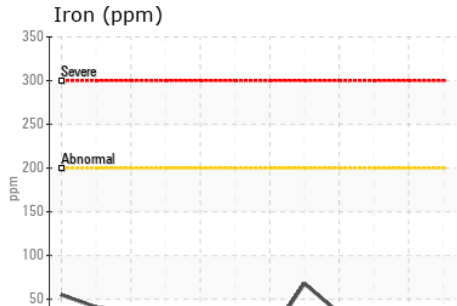
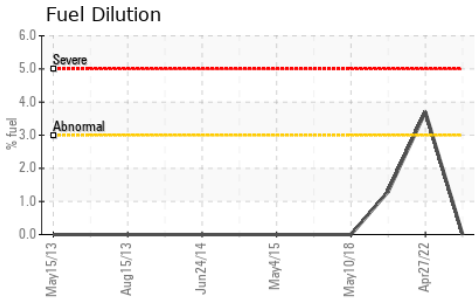
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>6</b>	12	14
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	3	11
Fuel	%	ASTM D7593*	>3.0	<b>0.0</b>	▲ 3.7	1.3
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	ASTM D7844*	>3	<b>0.1</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.1</b>	6.5	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.3</b>	18.5	19.0
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	10	45
Boron	ppm	ASTM D5185(m)	30	<b>11</b>	5	76
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	4
Molybdenum	ppm	ASTM D5185(m)		<b>22</b>	50	3
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	110	<b>213</b>	743	681
Calcium	ppm	ASTM D5185(m)	2740	<b>2134</b>	1309	1307
Phosphorus	ppm	ASTM D5185(m)	1240	<b>916</b>	995	712
Zinc	ppm	ASTM D5185(m)	1350	<b>1067</b>	1163	793
Sulfur	ppm	ASTM D5185(m)	3520	<b>2790</b>	2664	2679
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.9</b>	11.8	13.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.2	<b>12.8</b>	▲ 11.9	12.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0781411 **Received** : 14 Jun 2024  
**Lab Number** : 02641930 **Tested** : 17 Jun 2024  
**Unique Number** : 5799469 **Diagnosed** : 17 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PercentFuel )

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.